



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Robert L. Morgan

Area Engineer

1636 West North Temple, Suite 220

Salt Lake City, Utah 84116-3156

801-538-7240

RECEIVED

JUN - 6 1988

KENNECOTT EXPLORATION
Salt Lake City, Utah

G. D. SCHURTZ

JUN 09 1988

June 2, 1988

RECEIVED
JUN 9 1988
DIVISION OF
OIL, GAS & MINING

Kennecott Explorations (Australia) Ltd.
1515 Mineral Square
SLC, UT 84112

Re: Regulating Reservoir Applications- 88R123, 88R124, 88R125, 88R126

Gentlemen:

We have approved your "Applications to Construct a Dam Impounding less than 20 acre-feet". Conditions on the approvals are as follows:

1. Any storage of water in the reservoirs created is subject to all vested water rights in your area.
2. All design and construction activities undertaken shall be commensurate with state-of-the-art standards.
3. Notification of the inspector and contractor for the projects shall be submitted to this office prior to the beginning of any construction.
4. All inspector's journals and results of material testing performed during construction should be submitted to this office.

Copies of your approved applications are included for your future reference. If you have any questions or need further clarification, please feel free to contact me or Ed Feldt, of our Utah Lake-Jordan River area office.

Sincerely,

Richard B. Hall, P.E.
Directing Dam Safety Engineer

RBH/cp

cc: Ed Feldt, Area Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. 88R123
Received 4-18-86
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Kennecott Explorations (Australia) Ltd.
ADDRESS 1515 Mineral Square
CITY Salt Lake City COUNTY OF DAM Salt Lake
STATE Utah ZIP 84112

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION X TAILINGS POND _____ RECREATION _____
OTHER (describe) _____

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWSW SECTION 32
TOWNSHIP 2S RANGE 2W BASE & MERIDIAN SLBM

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 40 FEET
CREST LENGTH (length of top of dam) 260 FEET
CREST WIDTH (width of top of dam) 25 FEET
UPSTREAM SLOPE 40 VERTICAL ON 60 HORIZONTAL
DOWNSTREAM SLOPE 50 VERTICAL ON 80 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 1.8 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 27 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) earthfill

5. PROPOSED OUTLET

INSIDE DIAMETER N/A INCHES LENGTH N/A FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) N/A
TYPE OF GATE OR VALVE N/A
LOCATION OF GATE (upstream, downstream, center, etc.,) N/A

(OVER)

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway)	N/A	FEET
DEPTH (from bottom of spillway to top of dam)	15	FEET
TYPE (i.e. earth channel, pipe, etc.,)		
	48-inch diameter culvert	
CONTROL (i.e. gates, flashboards, etc.,)		
	open drop inlet	

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A sediment pond only

8. COMMENTS

Owners name for structure is Impoundment P.
27 acre-foot storage capacity is temporary and will be
accomplished by adding a drop inlet to the permanent 48"
concrete culvert. The permanent storage capacity, controlled
by the concrete culvert is approximately 20 acre feet.

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4/4/88
Date

Signature of Applicant

Water Rights in Order By JW Date 6/1/88
Area Engineer's Hazard Rating Low
Reviewed by Dam Safety By EA Date 6/2/88
Comments

Date of Approval

Robert L. Morgan, P.E.
State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. 88124
Received 4-11-88
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Kennecott Explorations (australia) Ltd.
ADDRESS 1515 Mineral Square
CITY Salt Lake City COUNTY OF DAM Salt Lake
STATE Utah ZIP 84112

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION X TAILINGS POND _____ RECREATION _____
OTHER (describe) _____

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWSW SECTION 32
TOWNSHIP 2S RANGE 2W BASE & MERIDIAN SLBM

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 45 FEET
CREST LENGTH (length of top of dam) 500 FEET
CREST WIDTH (width of top of dam) 25 FEET
UPSTREAM SLOPE 45 VERTICAL ON 80 HORIZONTAL
DOWNSTREAM SLOPE 70 VERTICAL ON 120 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 2.1 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 20 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) earthfill

5. PROPOSED OUTLET

INSIDE DIAMETER N/A INCHES LENGTH N/A FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) N/A
TYPE OF GATE OR VALVE N/A
LOCATION OF GATE (upstream, downstream, center, etc.,) _____
N/A

(OVER)

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) N/A FEET
DEPTH (from bottom of spillway to top of dam) 15 FEET
TYPE (i.e. earth channel, pipe, etc.,) _____
48-inch diameter concrete culvert
CONTROL (i.e. gates, flashboards, etc.,) _____
none, open culvert

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A Sediment pond only
S9-3912- Dartan Spr. livestock pond owner: Kennecott
lined with rip rap, at impoundment Q

8. COMMENTS

Owner's name for structure is: "Impoundment Q".

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4/4/88
Date

Gerald R. Schmitt
Signature of Applicant

Water Rights in Order By JW Date 6/2/88
Area Engineer's Hazard Rating low
Reviewed by Dam Safety By BT Date 4/2/88
Comments _____

Date of Approval

June 2, 1988

Robert L. Morgan, P.E.
for State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. 88R126
Received 4-11-88
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Kennecott Explorations (Australia) Ltd.
ADDRESS 1515 Mineral Square
CITY Salt Lake City COUNTY OF DAM Salt Lake
STATE Utah ZIP 84112

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION X TAILINGS POND _____ RECREATION _____
OTHER (describe) _____

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NWNW SECTION 32
TOWNSHIP 2S RANGE 2W BASE & MERIDIAN SLBM

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 25 FEET
CREST LENGTH (length of top of dam) 450 FEET
CREST WIDTH (width of top of dam) 25 FEET
UPSTREAM SLOPE 25 VERTICAL ON 50 HORIZONTAL
DOWNSTREAM SLOPE 30 VERTICAL ON 60 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 1.8 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 19 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) earthfill

5. PROPOSED OUTLET

INSIDE DIAMETER N/A INCHES LENGTH N/A FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) N/A
TYPE OF GATE OR VALVE N/A
LOCATION OF GATE (upstream, downstream, center, etc.,) N/A

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) N/A FEET
DEPTH (from bottom of spillway to top of dam) 15 FEET
TYPE (i.e. earth channel, pipe, etc.,) _____
48-inch diameter concrete culvert
CONTROL (i.e. gates, flashboards, etc.,) _____
None

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A Sediment pond only

8. COMMENTS

Owner's name for structure is: "Impoundment R".

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4/4/88
Date

Gerald R. Schultz
Signature of Applicant

Water Rights in Order By JW Date 6/1/88
Area Engineer's Hazard Rating Low
Reviewed by Dam Safety By RA Date 4/2/88
Comments _____

Date of Approval June 2, 1988

Robert L. Morgan, P.E.
State Engineer

APPLICATION TO CONSTRUCT
A DAM IMPOUNDING LESS
THAN 20 ACRE-FEET

STATE OF UTAH

Application No. 88K/25
Received 4-11-88
Entered _____

The following application is submitted, pursuant to Section 73-5-12 of the Utah Code Annotated 1953, to obtain the authority to build a dam which will create a reservoir impounding less than 20 acre-feet

1. APPLICANT INFORMATION

NAME Kennecott Explorations (Australia) Ltd.
ADDRESS 1515 Mineral Square
CITY Salt Lake City COUNTY OF DAM Salt Lake
STATE Utah ZIP 84112

2. PURPOSE OF DAM

STOCK POND _____ REGULATING RES. _____ DIVERSION DAM _____
IRRIGATION _____ DEBRIS BASIN _____ FLOOD CONTROL _____
SEDIMENTATION X TAILINGS POND _____ RECREATION _____
OTHER (describe) _____

3. LOCATION OF DAM

QUARTER/QUARTER (i.e. NESW) NENE SECTION 6
TOWNSHIP 3S RANGE 2W BASE & MERIDIAN SLBM

4. PROPOSED DAM

DAM HEIGHT (vertical distance) 45 FEET
CREST LENGTH (length of top of dam) 450 FEET
CREST WIDTH (width of top of dam) 25 FEET
UPSTREAM SLOPE 45 VERTICAL ON 70 HORIZONTAL
DOWNSTREAM SLOPE 80 VERTICAL ON 110 HORIZONTAL
WATER SURFACE AREA AT SPILLWAY CREST 1.4 ACRES
RESERVOIR CAPACITY AT SPILLWAY CREST 10 AC.FT.
TYPE OF DAM (i.e. earthfill, concrete, etc.,) earthfill

5. PROPOSED OUTLET

INSIDE DIAMETER N/A INCHES LENGTH N/A FEET
TYPE OF PIPE (i.e. concrete, steel, etc.,) N/A
TYPE OF GATE OR VALVE N/A
LOCATION OF GATE (upstream, downstream, center, etc.,) N/A

(OVER)

6. PROPOSED SPILLWAY

CREST LENGTH (width of bottom of spillway) N/A FEET
DEPTH (from bottom of spillway to top of dam) 15 FEET
TYPE (i.e. earth channel, pipe, etc.,) _____
48-inch diameter concrete culvert
CONTROL (i.e. gates, flashboards, etc.,) None

7. WATER RIGHTS

DESCRIBE (See Instructions) N/A Sediment pond only

8. COMMENTS

Owner's name for structure is: "Impoundment S".

9. PLANS

Attach any plans sketches or diagrams which will clarify the information given on this application.

The undersigned acknowledge they have read the instructions included with this application, and are aware no construction is to begin until this application has been approved by the Utah State Engineer

4/4/88
Date

Robert L. Morgan
Signature of Applicant

Water Rights in Order By JW Date 6/1/88
Area Engineer's Hazard Rating Low
Reviewed by Dam Safety By LA Date 4/2/88
Comments _____

Date of Approval

June 2, 1988

Robert L. Morgan
Robert L. Morgan, P.E.
Fur State Engineer